Vocal keypad with tag reader
and proximity detector SH640AX

GM Techtronics

DAITEM

INSTALLATION MANUAL

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1. Introduction

IMPORTANT
- **Some functions are only available with control panel versions 2.0.0 or later (enter # 5 0 3 # # on the control panel keypad to check the version).**
- **Operational differences in relation to former ranges are described in the compatibility booklet available in the Daitem Installers section at www.daitem.co.uk.**

The vocal keypad with tag reader and proximity detector can be used to operate an intrusion protection system from outside or inside the home.

The keypad commands can be accessed:
- using the master code,
- using the 8 user codes,
- using a tag (24 tags max).

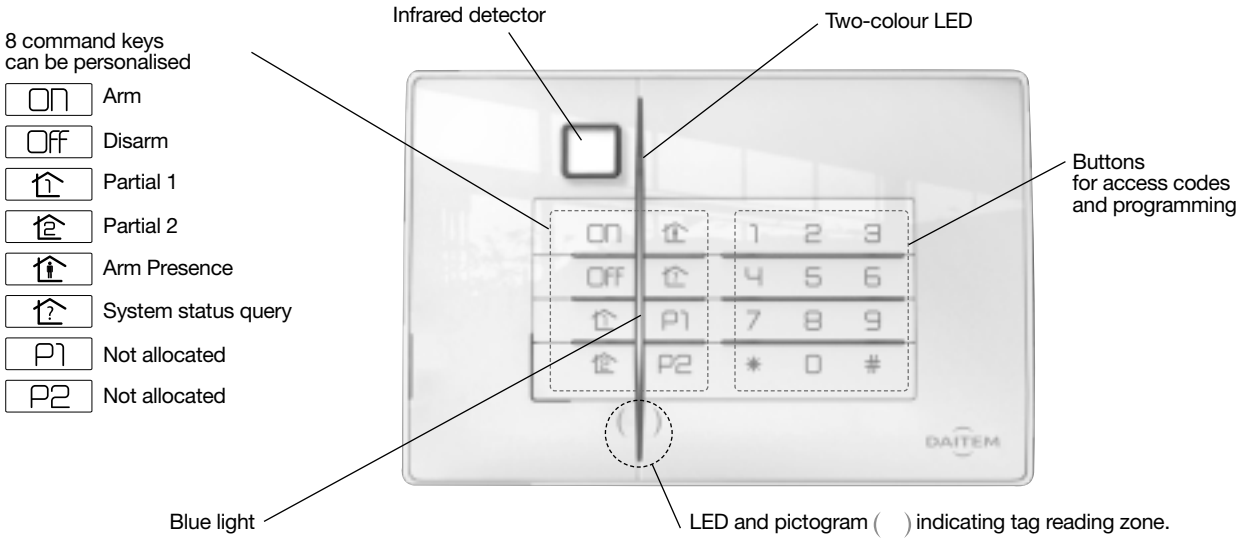
Each command is confirmed with a voice message and a visual signal (LED) issued by the keypad. The keypad indicates:
- the system status,
- the status of alarms,
- the status of exit points,
- faults.

The speech synthesis system also helps with keypad use and programming.

The vocal keypad also has an infrared detector able to detect an approaching person.

The keypad is protected against:
- opening,
- removal,
- attempts to discover the access code.

If the level of lighting is low, a key is pressed or the detector triggered (see Infrared detector operation), the buttons and keypad are back-lit for 10 s.
The back-lighting period is repeated for 10 s when the last key is pressed.



1.1 LED indications

LED	LED status	Meaning
Red	steady	key pressed correctly
	1 flash every 5 s	keypad in test mode
	2 flashes every 10 s	keypad in installation mode
	3 quick flashes	handling or programming error, access code invalid
Green	steady for 2 s	correct programming
	steady for 10 s	access code valid (the 10 s period is repeated after each command)

1.2 Voice messages

IMPORTANT: only the commands sent from the vocal keypad result in the following messages. Orders issued by another remote control unit do not lead to a keypad response.

The keypad issues the following voice messages:

Following a command	Voice message
Disarm	*"bip, off"*
Arm	*"bip, armed"*
Partially arm 1	*"bip, armed partial one"*
Partially arm 2	*"bip, armed partial two"*
Disarm group X (X = 1 to 8)	*"bip, off group X"*
Arm group X (X = 1 to 8)	*"bip, armed, group X"*
Arm presence	*"bip, armed presence"*
System status query	*"bip, system status, armed"* *"bip, system status, armed partial one two"* *"bip, system status, off"* *"bip, system status, armed group X"* *"bip, system status armed presence"*
Change to test mode	*"bip, test mode"*
Change to installation mode	*"bip, installation mode"*
Change to user mode	*"bip, user mode"*

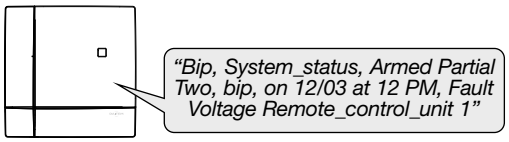
It also indicates:
• possible alarms following a Disarm command

Following a command	Voice message
Disarm...	*"bip, off ..., alarm System"*

• faults and the status of exit points following a Disarm, Arm or system status query command

Following a command	Voice message
Disarm...	*"bip, off ..., fault system"*
Arm...	*"bip, armed ..., fault system"* *"bip, armed ..., exit opened"*
System status query	*"bip, system_ status..., fault system"* *"bip, system status..., exit opened"* *"bip, system status..., exit inhibited"*

Example:
The system is in Armed Partial Two mode and the keypad has a battery fault.
When a "System status query" order is sent from the vocal keypad, the keypad and control panel issue the following messages:



The keypad also indicates information feedback as shown below:

Command sent to:	LED status and colour	Meaning
An alarm control panel	lights up steady GREEN for 1.5 s	Total or group DISARMING
	flashes GREEN 3 times	Total or group DISARMING with alarm memory
	lights up steady RED for 1.5 s	Total, partial or group ARMING
	flashes RED 3 times	ARMING blocked (1)
A command receiver or remote-controlled socket	lights up steady GREEN for 1.5 s	Transmission of a home control command (light, relay, etc.)

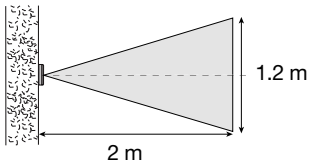
(1) Arming blocked means that the intrusion system has been unable to arm owing to a system fault.
The user must check the control panel for more information.

1.3 Infrared detector operation

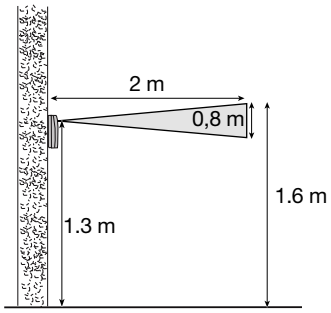
The vocal keypad has an infrared detector enabling it to detect an approaching person.
It has 2 distinct detection zones:

- The distant detection zone

Top view

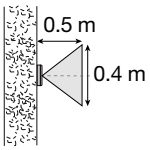


Side view

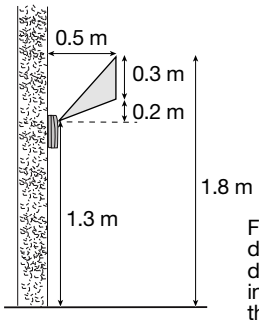


- The close detection zone

Top view



Side view



For an efficient close detection, infrared detector must not be installed at height upper than 1.3 m.

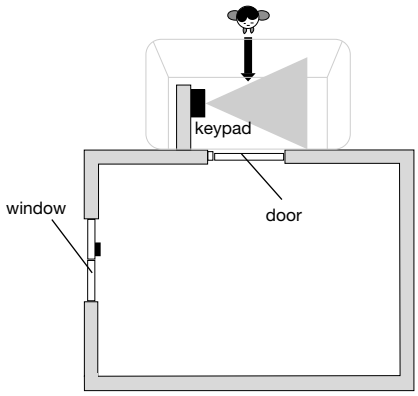
IMPORTANT: if the infrared detector is directed at the sun it is likely to be triggered for no reason.

Like a conventional infrared motion detector, the keypad detector is allocated to an intrusion group and its alarm level can be set.

Different types of triggering are possible:
- immediate,
- delayed,
- combined.

IMPORTANT: it is not advisable to programme the infrared detector for immediate triggering.

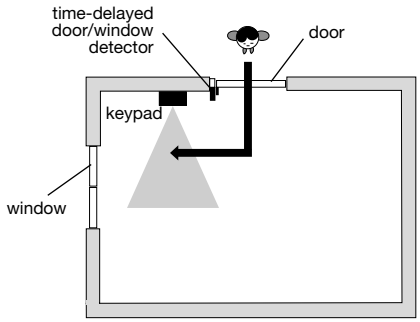
Time-delayed triggering
In the event of intrusion, the alerts and deterrents are triggered at the end of the entry time delay.



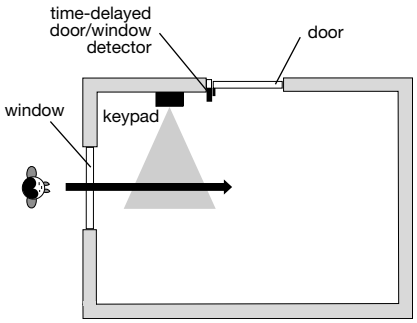
Combined triggering
A combined detector will trigger immediately if it is the first detector to be set off. It will observe a time delay before triggering if another time-delayed detector detects something first.

Example:

- The user enters his home:
  The **door/window detector detects his presence and the keypad motion detector observes a time delay** allowing the user to reach the keypad and stop the system.



- In the event of intrusion via a window:
  The **door/window detector is not set off whereas the keypad motion detector is immediately triggered** along with the other alerts and deterrents.



Depending on the alarm system status, the keypad will operate as follows:

1. Alarm system status: Disarmed

Detection	Keypad response
Distant	No response
Close	Back-lighting for 10 s

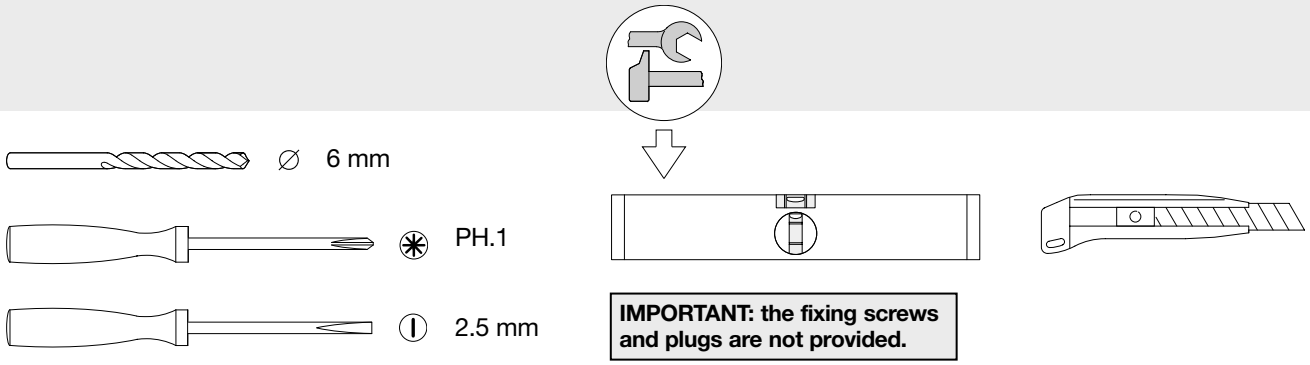
2. Alarm system status: Totally Armed or Group to which the keypad infrared detector has been allocated Armed:

Detection	Infrared detector alarm level	Keypad response		Control panel response	Siren response
		Time-delayed triggering of infrared detector (detector programmed for time delay or combined operation and triggered 2nd)	**Immediate triggering of infrared detector** (detector programmed for combined operation and triggered 1st)		
Distant or close	Intrusion	• back-lighting for 10 s • warning message *"bip, bip, bip, protection active"* (1)	no response	loud sounding for 90 s	loud sounding for 90 s + strobe flashing for 15 min
	Prealarm		• back-lighting for 10 s • series of 10 beeps (1)	loud sounding for 15 s	loud sounding for 15 s + strobe flashing for 15 s
	Deterrence		• back-lighting for 10 s • series of 5 beeps (1)	series of beeps for 5 s	series of beeps for 5 s + strobe flashing for 5 s
	Warning		• back-lighting for 10 s • series of 3 beeps (1)	series of beeps for 2 s	series of beeps for 2 s + strobe flashing for 5 s

(1) IMPORTANT: the message or warning beeps are issued if parameter 23 has been enabled (factory disabled).

2. Preparation

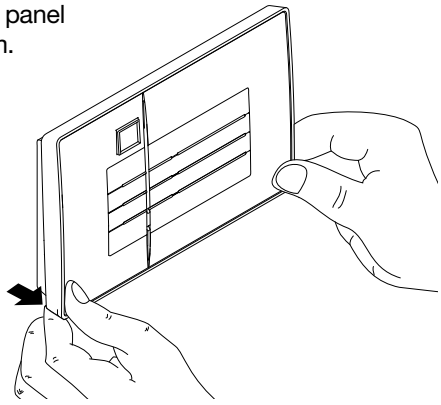
2.1 Tooling required



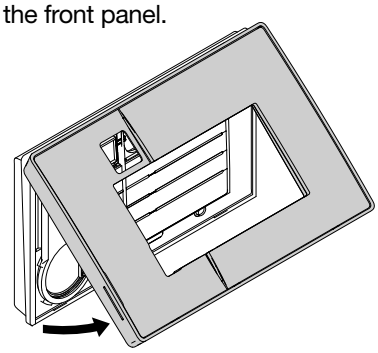
IMPORTANT: the fixing screws and plugs are not provided.

2.2 Power supply

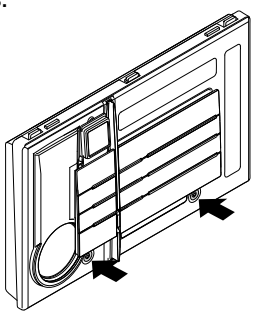
1. Unclip the front panel from the bottom.



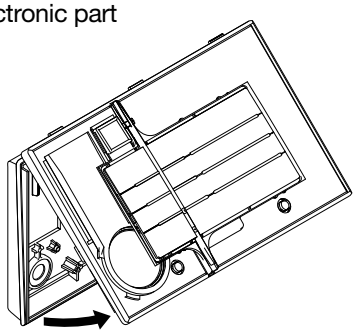
2. Remove the front panel.



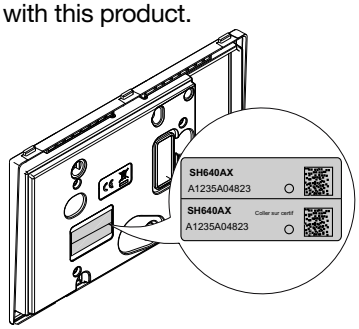
3. Loosen the 2 screws.



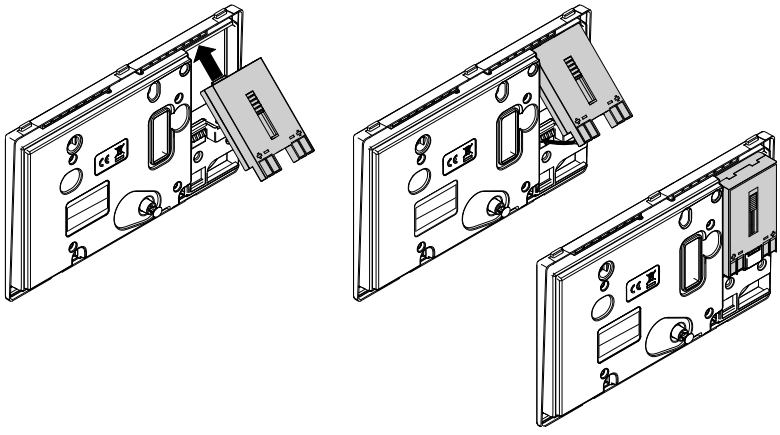
4. Remove the electronic part from the base.



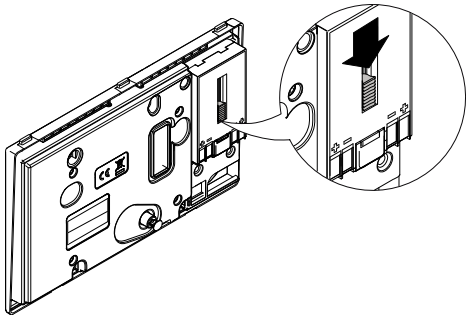
5. Remove the pre-cut part of the sticker and stick it to the guarantee certificate inside the user manual supplied with the control panel. If you are adding to an existing system, use the guarantee certificate supplied with this product.



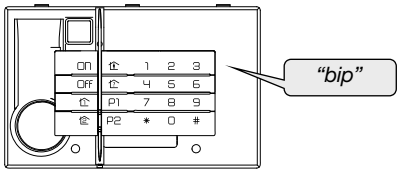
6. Connect the lithium power pack to its support.



7. Push the lithium power pack lock downwards.



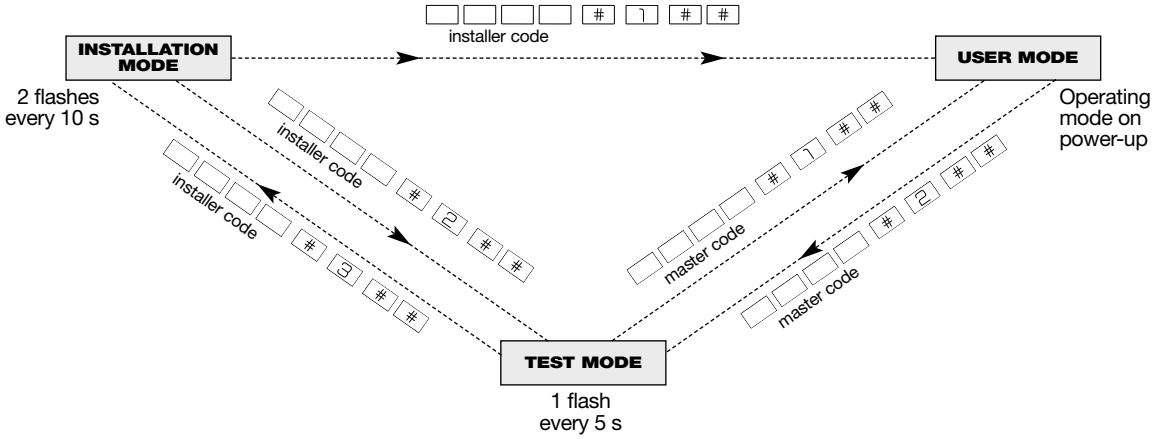
The keypad will issue a long beep and the LED will light up RED for 2 s.



3. Changing the operating mode

IMPORTANT
- **When the keypad is powered it is in user mode.**
- **The keypad must be in installation mode for recognition programming and parameter-setting.**

The mode can be changed by entering the factory master code "0000" then the factory installer code "1111" as shown below:



IMPORTANT
- **For security reasons, the keypad automatically switches back to user mode after 4 hours without a command being issued.**
- **If 5 wrong codes are entered in less than 5 minutes the keypad will be blocked for 5 minutes.**
- **If the keypad:**
  - is used without a control panel (e.g. command from external receiver),
  - is not or no longer recognised by a control panel,
  the operating mode cannot be changed if the tamper pin on the back of the keypad is pressed in.

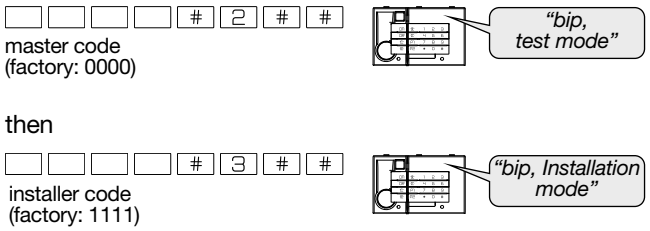
4. Recognition programming

IMPORTANT: the product does not need to be placed next to the control panel for recognition programming. In fact, it is advisable to move it at least 2 metres away from the control panel.

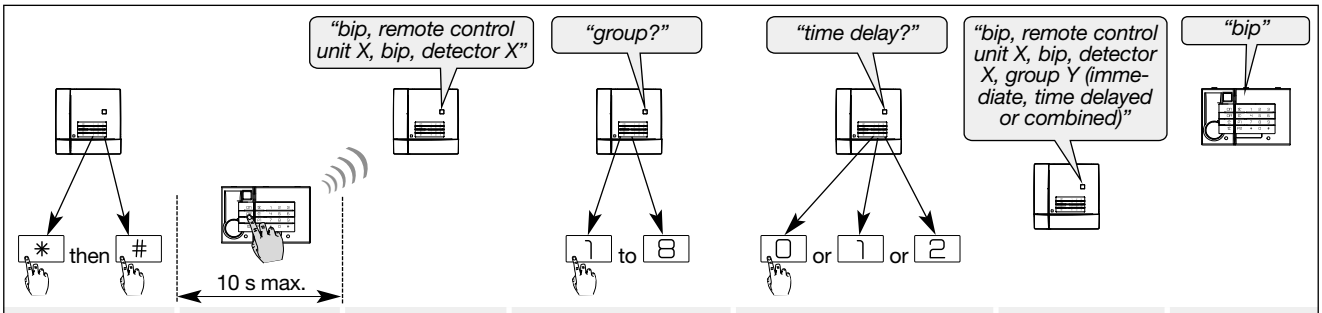
Recognition programming allows the control panel to recognise the keypad and infrared detector.

1. Make sure the control panel is in installation mode (see Control panel installation manual) with its front cover removed.

2. Switch the keypad to installation mode by entering:



3. Perform the following recognition programming procedure:


"bip, remote control unit X, bip, detector X"
"group?"
"time delay?"
"bip, remote control unit X, bip, detector X, group Y (immediate, time delayed or combined)"
"bip"
* then #
10 s max.
1 to 8
0 or 1 or 2

Press * then # on the control panel keypad	Press and hold **"Off"** until the control panel responds	The control panel issues a voice message to confirm keypad recognition	The control panel waits to know the infrared detector **group (from 1 to 8 according to the type of control panel).** Press the control panel keypad to select the group	The control panel waits to know the type of infrared red detector triggering: • **0: immediate,** • **1: time-delayed,** • **2: combined.** Press the control panel keypad to select the type	The control panel issues a voice message to confirm infrared detector recognition	The keypad issues a long beep to confirm recognition

IMPORTANT
- **It is not advisable to programme the infrared detector for immediate triggering.**
- **The control panel issues 3 short beeps to indicate a programming error. If this happens, the recognition programming procedure should be performed again from the start.**

5. Parameter-setting

IMPORTANT
- **Before setting any parameters, the keypad must first be in installation mode (see chapter 3. Changing the operating mode).**
- **A long beep is issued and the LED lights up green for 2 s to indicate correct programming. If an error is made, the red LED flashes 3 times and the keypad issues 3 short beeps.**

5.1 Selecting the language

To select the speech synthesis language, enter:

[*] [1] [7] [*] [ ] [*] [*]

0: French (factory) 3: Spanish
1: Italian 4: Dutch
2: German 5: English

5.2 Setting the speech synthesis system sound level

To set the speech synthesis system sound level, enter:

[*] [1] [1] [*] [ ] [*] [*]

1 = low level
4 = average level (factory)
8 = high level

IMPORTANT
- **This setting does not affect the sound level of the standard beep issued each time a keypad key is pressed.**
  However, it does affect the sound level of the short beep, long beep and 3 error beeps issued during programming.
- **Below -5°C, the sound level automatically switches to low.**

5.3 Number of access code digits

IMPORTANT: the number of access code digits can only be modified when all the access codes correspond to the factory values. To do this, put the keypad in installation mode and enter: [*] [1] [9] [6] [*] [*] [*].

Before modifying the keypad access codes, the number of access code digits must be determined (4 digits in the factory code).
If you extend the number of digits this will apply to all the following:
- the master code,
- the installer code,
- the 8 user codes.

To modify the number of digits, enter:

[*] [6] [9] [*] [ ] [*] [*]

number of digits (4 to 6)

Example: to extend the access codes to 6 digits, enter:

[*] [6] [9] [*] [6] [*] [*]

5.4 Modifying the master code

IMPORTANT
- **Forbidden access codes: 0000, 1111, 2222, 3333.**
- **The master code can be modified in the three operating modes: installation mode, test mode or user mode.**

The master code is for use by the main user and enables:
- use of all keypad functions (all commands),
- access to TEST mode and USER mode,
- control (authorisation or non-authorisation) of User codes.

To ensure system confidentiality, the master code must be changed. To do this, enter:

[ ] [ ] [ ] [ ] [*] [5] [0] [*] [ ] [ ] [ ] [ ] [*] [ ] [ ] [ ] [ ] [*] [*]

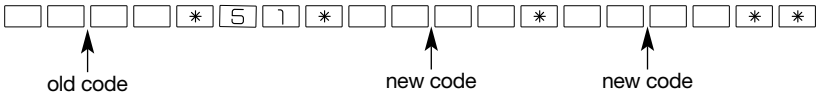
old code new code new code

Example: to replace the factory master code “0000” with the new code “1234”, enter:

[0] [0] [0] [0] [*] [5] [0] [*] [1] [2] [3] [4] [*] [1] [2] [3] [4] [*] [*]

5.5 Modifying the installer code

The Installer code is for use by the installer.
It allows access to all keypad installation, programming and maintenance operations in INSTALLATION mode.
To ensure system confidentiality, the installer code must be changed.
To do this, enter:



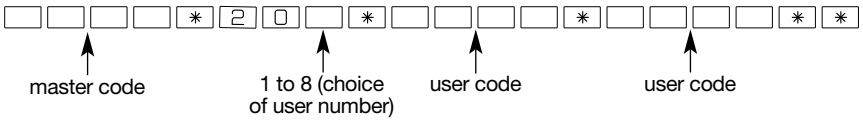
Example: to replace the factory installer code “1111” with the new code “6789”, enter:

1 1 1 1 * 5 1 * 6 7 8 9 * 6 7 8 9 * *

5.6 Managing user codes

IMPORTANT: there are no factory programmed user codes.

The user codes are for secondary and occasional users (service staff, employees, etc.).
They allow for limited and temporary use of the keypad:
• restricted access to specific commands or specific groups can be programmed for each user code,
• each user code can be enabled or disabled at any time.
The vocal keypad has 8 user codes.
To programme or modify a user code, enter:

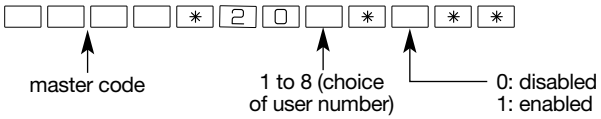


Example: after entering the master code (1234), programme user number 1 (1213) by entering:

1 2 3 4 * 2 0 1 * 1 2 1 3 * 1 2 1 3 * *

5.6.1 Disabling and enabling a user code

User codes can be disabled or enabled in the 3 operating modes.
A programmed user code is automatically enabled.
To disable or enable a user code, enter:



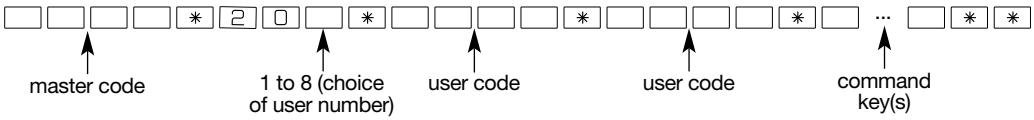
Example: to disable user code 1, enter:

1 2 3 4 * 2 0 1 * 0 * *

5.6.2 Restricted access to commands

User codes can have separate limited access to:
• specific keypad **command keys**,
• specific **groups**.
Only selected commands or groups can be accessed when the user code is entered.

• To **restrict** a user code to (a) **specific command key(s)**, enter:

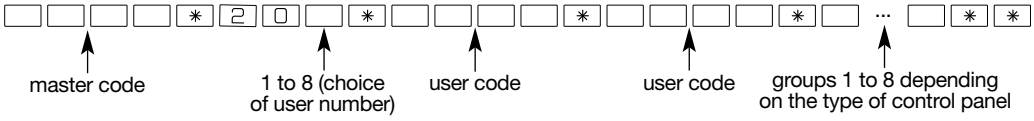


Example: to **restrict user code 1** (1213) to **the Partial 1 command**, enter:

1 2 3 4 * 2 0 1 * 1 2 1 3 * 1 2 1 3 * ⌂ * *

In this case, only the Partial 1 key can be accessed via user code 1.

• To **restrict** a user code to (a) **specific group(s)**, enter:



Example: to **restrict user code 1** (1213) to **Group 1** and **Group 2**, enter:

1 2 3 4 * 2 0 1 * 1 2 1 3 * 1 2 1 3 * 1 2 * *

In this case, user code 1 can only disarm and arm Group 1 and Group 2.

5.6.3 Restricted access to both a command key and a group

Example: to **restrict user code 1** (1213) to **Group 1 Arm/Disarm** and the **Partial 1 key**, enter:

[1][2][3][4][*][2][0][1][*][1][2][1][3][*][1][2][1][3][*][1][⌂][*][*]

Group 1 — "Partial one" command key

In this case, user code 1 can only disarm or arm Group 1 and operate the Partial 1 key.

5.7 Managing tags

Tags dispense with the need for users to enter the master code or user codes when issuing commands.
Each tag can be programmed for restricted access to specific commands or specific groups.
Each tag can be enabled or disabled at any time.
The vocal keypad can work with up to 24 tags maximum.

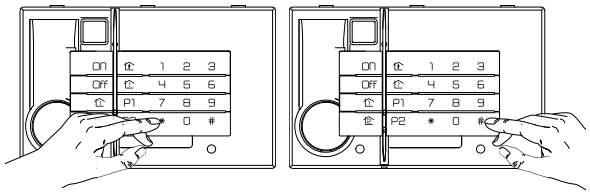
IMPORTANT
- **The tag numbers are automatically allocated by the keypad in increasing order.**
- **When a tag is deleted this frees up a number, which will be automatically re-allocated when a new tag is registered.**

5.7.1 Registering and deleting tags

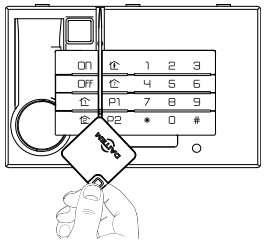
For a tag to be identified by the keypad, it must first be registered. The registering procedure described below must be performed for each tag. If the installation has several keypads and a tag must operate with each one, the tag registering procedure must be performed for each keypad.

Perform the tag registering procedure in installation mode.

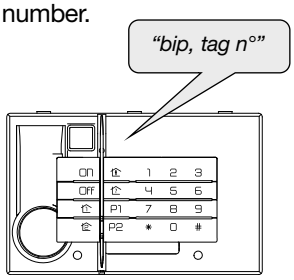
1. Press [*] then [#] on the keypad.
Perform step 2 within the next 10 s.



2. Hold the tag against the zone indicated by the flashing LED.



3. The keypad issues a beep and announces the tag number.



- To delete a registered tag, enter:

[*][1][9][4][*][ ][ ][*][*]

tag n° from 01 to 24

The keypad issues a long beep to indicate that the tag has been deleted.

- To delete all registered tags, enter:

[*][1][9][5][*][*][*]

5.7.2 Checking tags

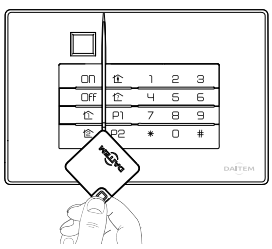
Once the keypad is in user mode, a tag number can be checked at any time by performing the following procedure:

1. On the keypad, enter:

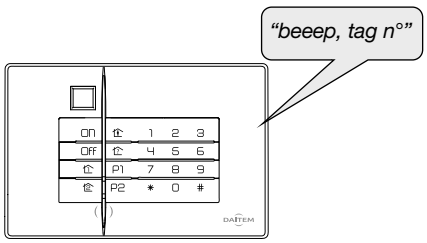
[ ][ ][ ][ ][*][#]

master code

2. The LED indicating the reading zone flashes. Place the tag against the pictogram ( ).

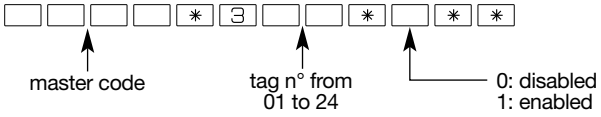


3. The keypad issues a long beep and announces the tag number.

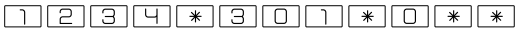


5.7.3 Disabling and enabling a tag

Tags can be disabled or enabled in the 3 operating modes.
A registered tag is automatically enabled.
To disable or enable a tag, enter:



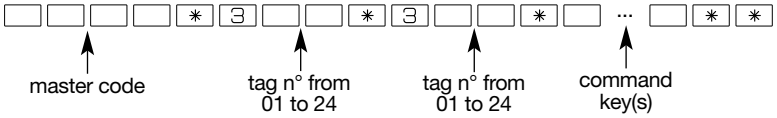
Example: to disable tag 1, enter:



5.7.4 Restricted access to commands

Tags can have separate and limited access to specific command keys and specific groups.
Only commands or groups selected during programming can be accessed using a tag.

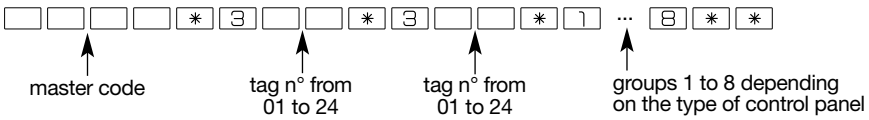
• To **restrict** a tag to (a) **specific command key(s)**, enter:



Example, to **restrict tag 02** to the **Partial 1 command**, enter:

In this case, only the Partial 1 key can be accessed via tag 02.

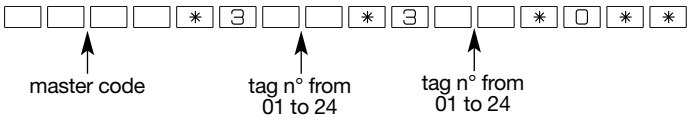
• To **restrict** a tag to (a) **specific group(s)**, enter:



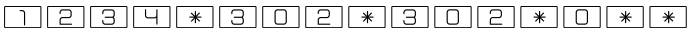
Example, to **restrict tag 01** to **Group 2**, enter:

In this case, tag 01 can only disarm and arm Group 2.

• **To cancel tag restrictions**, enter:



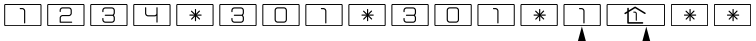
Example, to **cancel the restrictions linked to tag 02**, enter



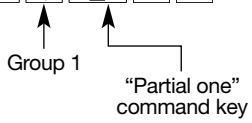
In this case, the access restrictions linked to tag 02 are deleted.

5.7.5 Combined command key and group restriction

Example, to **restrict tag 01** to **Arming/Disarming Group 1** and the **Partial 1 key**, enter:



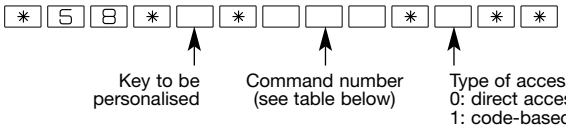
In this case, tag 01 can only disarm or arm Group 1 and operate the Partial 1 key.



5.8 Personalising a command button

The **8** keypad command **keys** can be **personalised** to adapt keypad commands to user needs (see table below). Furthermore, this personalisation allows the user to choose between direct or code-based access to keypad commands.

To personalise a key, enter:



IMPORTANT
- **In installation mode, the keypad commands can be accessed directly.**
- **In User mode all Arm or Disarm commands as well as the System Status command can only be accessed by using a User code.**

Command description	Command n°
OFF (1)	21
Panic Alarm	22
Armed (1)	23
Silent alarm	24
Armed, Partial 1 (1)	25
Armed, Partial 2 (1)	27
Fire alarm	32
Armed, Presence mode (stay)	33
Silent command	36
Stop indications (1) (2)	37
Door Bell Chime	38
Audible signal Chime	42
No command	44
Pulse light	50
Light OFF	52

Command description	Command n°
Light ON	54
Light toggle switch	56
Light timer	58
Pulse relay 1	60
OFF relay 1	62
Armed relay 1	64
Toggle switch relay 1	66
Timer relay 1	68
Pulse relay 2	70
OFF relay 2	72
Armed relay 2	74
Toggle switch relay 2	76
Timer relay 2	78
Pulse relay 3	80
OFF relay 3	82

Command description	Command n°
Armed relay 3	84
Toggle switch relay 3	86
Timer relay 3	88
Pulse relay 4	90
OFF relay 4	92
Armed relay 4	94
Toggle switch relay 4	96
Timer relay 4	98
Off relay control panel 1	112
On relay control panel 1	114
Off relay control panel 2	122
On relay control panel 2	124
System status (1)	129

(1) Command with code access only.
(2) Used to stop indications concerning a technical alarm, an alert or a tamper alarm without changing the system status.
Important: telephone transmissions are not interrupted.

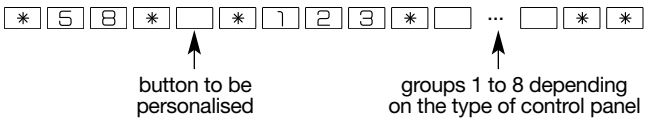
Example, to personalise the [P1] key for an “Alert” command accessed via a code, enter:

[*][5][8][*][P1][*][2][2][*][1][*][*]

5.9 Personalising a command button for arming or disarming groups 1 to 8

IMPORTANT: all disarm and arm commands can only be accessed via a code.

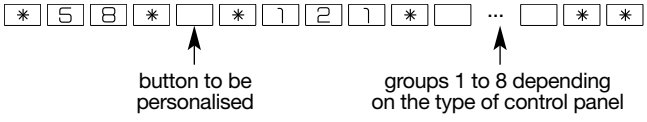
- **To personalise a key to arm groups 1 to 8**, enter:



Example, personalise the [P1] key to arm group 5 and 6:

[*][5][8][*][P1][*][1][2][3][*][5][6][*][*]

- **To personalise a key to disarm groups 1 to 8**, enter:



Example, personalise the [P1] key to disarm group 7 and 8:

[*][5][8][*][P1][*][1][2][1][*][7][8][*][*]

5.10 Managing the infrared detector

To modify the alarm level or deactivate the infrared detector, enter:

[*] [6] [*] [ ] [*] [*]

0: infrared detector disabled (factory)
1: intrusion
2: prealarm
3: deterrence
4: warning

IMPORTANT: if the infrared detector is disabled, this does not disable proximity detection and keypad back-lighting (see chapter 5.13 Managing back-lighting).

5.11 Activating the warning beeps or message on the keypad

To activate or deactivate the warning beeps or message (see chapter 1.3 Infrared detector operation), enter:

[*] [2] [3] [*] [ ] [*] [*]

0: disabled (factory)
1: enabled

5.12 Managing back-lighting

If the level of lighting is low, a key is pressed or a presence detected (see Infrared detector operation), the keys and keypad are back-lit for 10 s.
The back-lighting period is repeated for 10 s when the last key is pressed.
To activate or deactivate back-lighting, enter:

[*] [5] [9] [*] [ ] [*] [*]

0: disabled
1: enabled (factory)

5.13 Managing the blue light

The blue light lights up briefly when there is movement in front of the keypad infrared detector.
To activate or deactivate the blue light, enter:

[*] [3] [4] [*] [ ] [*] [*]

0: disabled
1: enabled (factory)

IMPORTANT: the blue light only comes on if the lighting level is low.

5.14 Consulting parameters

To consult the different parameter settings, put the keypad in installation mode and enter:

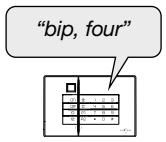
[*] [ ] [ ] [*] [#] [*] [*]

parameter n°

Example: consulting parameter 11 allows the user to check the sound level of the speech synthesis system.
To do this, enter:

[*] [1] [1] [*] [#] [*] [*]

The keypad issues a “bip” and then announces the parameter number digit by digit. Example: →

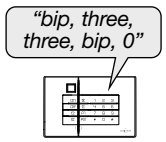


Consulting a personalised key
This allows the user to check the command number of a command key. To do this enter:

[*] [5] [8] [*] [ ] [*] [#] [*] [*]

personalised command button

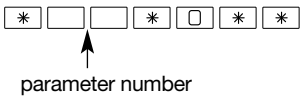
The keypad issues a “Bip”, then announces the command n° digit by digit, then issues another “Bip” and announces the digit 1 or 0 (1 = code access key and 0 = direct access key).
Example, direct access to Armed Presence mode: →



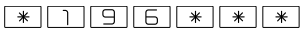
5.15 Deleting parameters

IMPORTANT: parameters can only be deleted if the keypad is in installation mode.

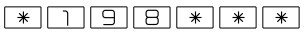
To delete a parameter, enter:



To delete all the access codes, enter:

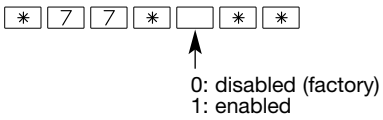


To return to the factory setting, enter:



5.16 Programming the “above freezing” function

The keypad can be used to detect the “above-freezing” temperature according to a thermo-static principle (a technical alarm is triggered when the temperature drops below 5 °C).
To programme this, enter:



6. Installing the device

6.1 Choosing the best place

IMPORTANT: if the infrared detector is directed toward the sun it is likely to be triggered for no reason.

- **If the infrared detector is disabled (factory).**
  The keypad can be installed:
  - inside,
  - outside the premises in a sheltered location,
  - making sure that there is a distance of at least 2 metres between each product, except between two detectors.

  The keypad cannot be installed:
  - directly on a metal surface or close to sources of interference (e.g. electricity meter).
- **If the infrared detector is enabled (factory).**
  The keypad can be installed:
  - inside,
  - outside the premises in a sheltered location, and in a place where the infrared detector is not exposed to the sun,
  - making sure that there is a distance of at least 2 metres between each product, except between two detectors.

  The keypad cannot be installed:
  - opposite or above a surface likely to heat up quickly (e.g. fireplace, radiator, etc.),
  - opposite a window,
  - opposite a stairwell accessible to animals,
  - pointing towards a mirror or a moving object (curtains, blinds, etc.),
  - in a place that might be exposed to the sun,
  - directly on a metal surface or close to sources of interference (e.g. electricity meter).

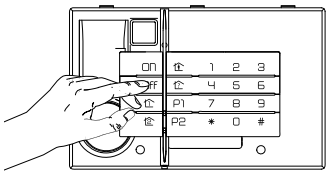
6.2 Testing the radio range

Before fixing the keypad in place, position it in the desired location and test the radio range.

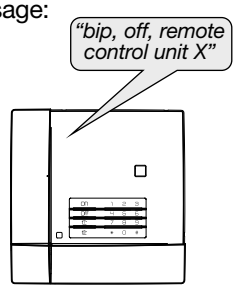
If it is good, fix the keypad in place, otherwise move it.

NOTE: the keypad will have to be recognised by the Control panel first , see section 4.0.

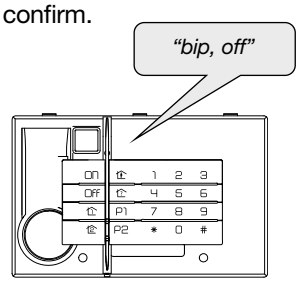
1. Press the **"Off"** key.



2. The control panel issues the message:



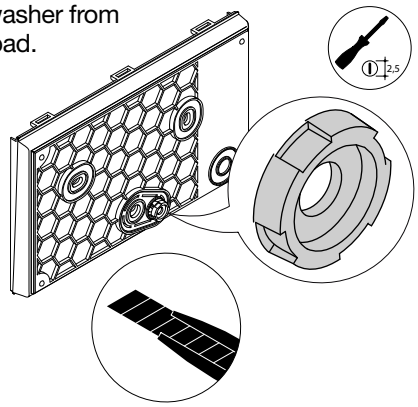
3. The keypad issues a voice message to confirm.



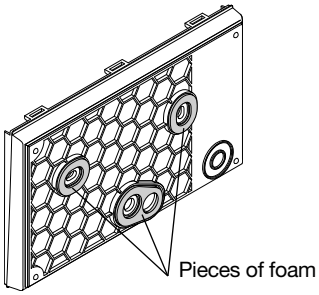
6.3 Fixing the keypad in place

1. Remove the fixing washer from the back of the keypad.

IMPORTANT: once the washer has been removed, remove any burrs from the keypad and washer.

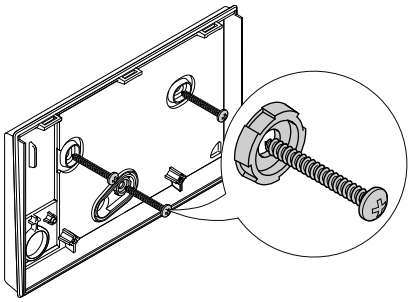


2. **IMPORTANT: if the keypad is installed outside, position the pieces of foam provided around the fixing slots.**

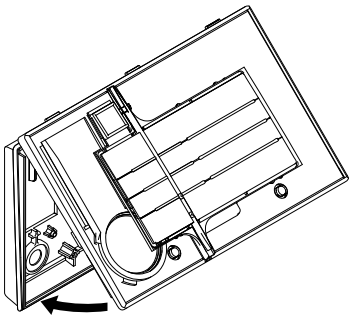


3. Position the base on the wall in order to determine the 3 fixing points. **Insert the washer removed during step 1 and fix it in place using suitable plugs and screws.**

IMPORTANT: use Ø 4 mm max screws with Ø 8 mm max heads.

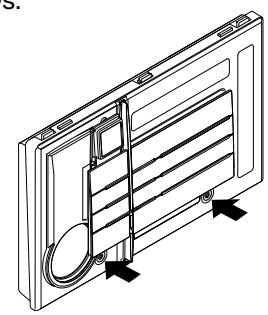


4. Position the electronic part on the base.

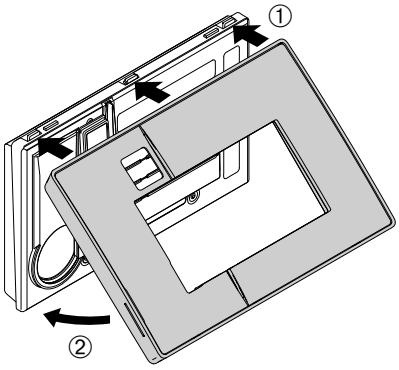


5. Tighten the 2 screws.

Philips PH.1

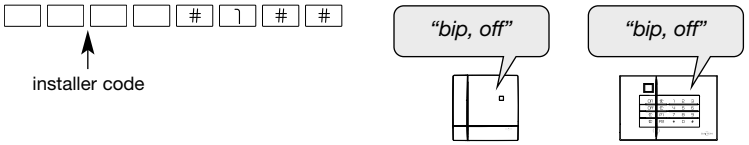


6. ① Hook the top of the front face on the 3 clips.
② Clip the front face on.



7. Switching to user mode

Once the radio range test has been performed:
1. Switch the keypad to user mode by entering:



IMPORTANT: putting the keypad in user mode automatically puts the control panel in user mode. Consequently, the keypad should only be switched to user mode when all the parameters have been set on the different system products (keypads, detectors, etc.).

2. Put the front cover back on the control panel.

8. Maintenance

8.1 Fault indications

The control panel supervises and identifies the keypad.
It monitors the state of:
- the **battery,**
- the **radio link,**
- the **tamper contact.**

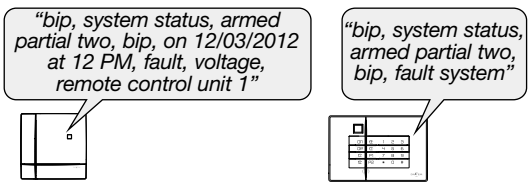
IMPORTANT: a keypad battery fault is also indicated by the red LED not being lit and by the absence of back-lighting when a button is pressed.

If a fault has been memorised, the control panel issues a voice message indicating the fault following a system command (see § Fault indications in the control panel installation manual).

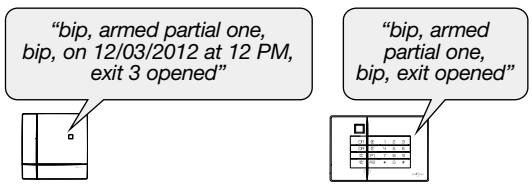
The keypad also issues a voice message about faults following a command issued from the keypad:

Commands	**Voice messages**
Disarm...	*"Off ..., faults system"*
Arm...	*"Armed..., exit opened, faults system"*
System status	*"System status..., exit opened, faults system, exit inhibited"*

- Example 1: Following a system status query command issued from the keypad, the keypad battery fault is indicated:


"bip, system status, armed partial two, bip, on 12/03/2012 at 12 PM, fault, voltage, remote control unit 1"
"bip, system status, armed partial two, bip, fault system"

- Example 2: Following a partially arm 1 command issued from the keypad, the keypad indicates that an exit is still open:

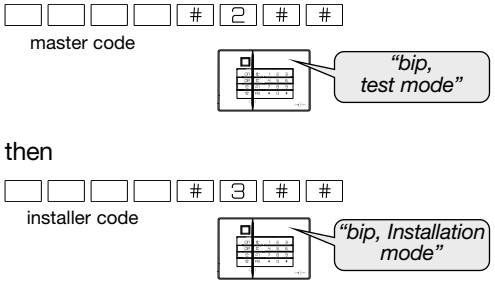


8.2 Changing the battery

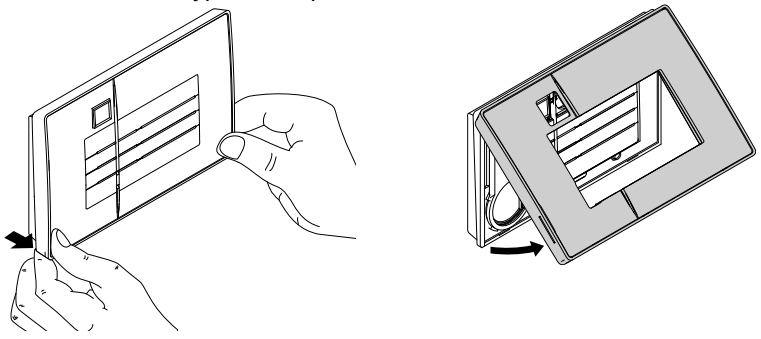
IMPORTANT
If the battery fails:
- **the red LED and back-lighting no longer come on when a key is pressed or when there is movement in front of the infrared detector,**
- **the sound level of the speech synthesis system switches to low (see chapter 5.2 Setting the speech synthesis system sound level).**

To change the battery:

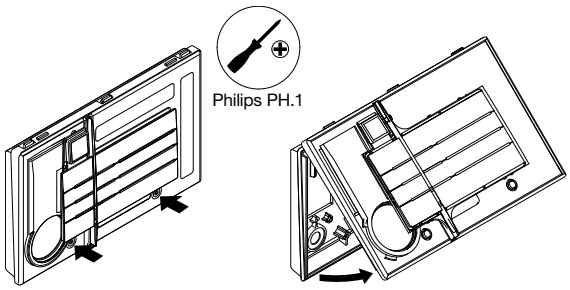
1. Switch the system to installation mode using the keypad to enter:



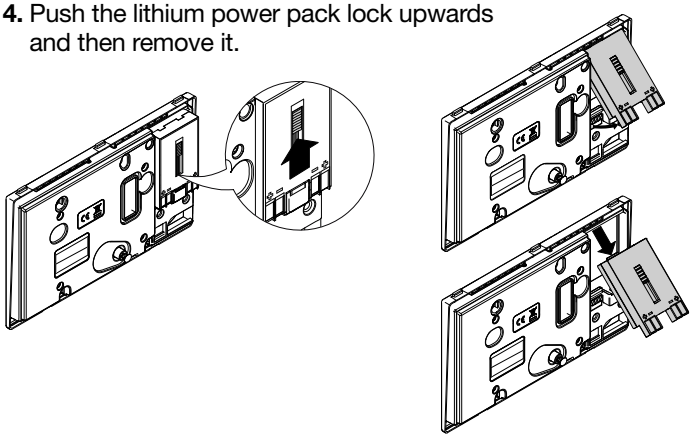
2. Remove the keypad front panel.



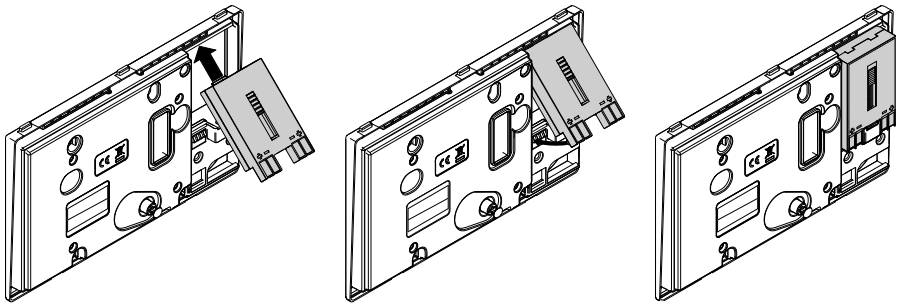
3. Loosen the 2 screws and remove the electronic part from the base.



4. Push the lithium power pack lock upwards and then remove it.



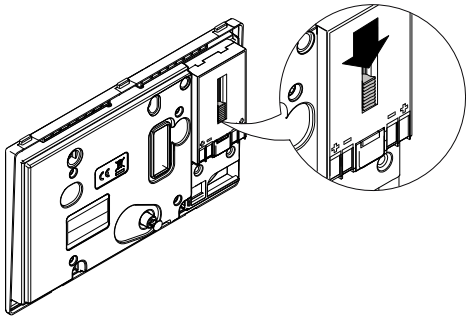
5. Insert a new lithium power pack.



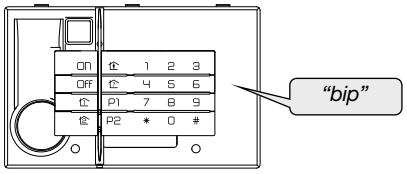
IMPORTANT: before connecting the new lithium power pack, press on a keypad button to delete the battery fault. The keypad battery fault is automatically deleted from the control panel 10 min after the battery has been changed.

IMPORTANT
- **The lithium battery pack must be replaced with the same type of pack with the same technical characteristics, i.e. 2 x (3 V – 2.4 Ah).**
- **We advise you to use the DAITEM RXU02X battery available in the catalogue in order to guarantee individual safety and equipment reliability.**
- **Dispose of the waste lithium power pack in an appropriate recycling bin.** Li

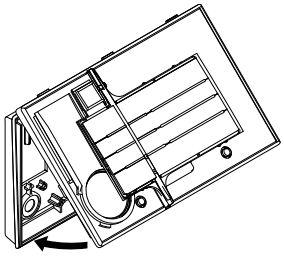
6. Push the lithium power pack lock downwards.



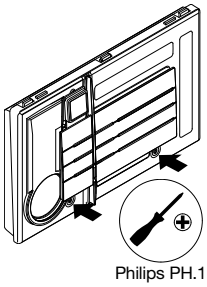
The keypad issues a long beep and the LED lights up red for 2 s.



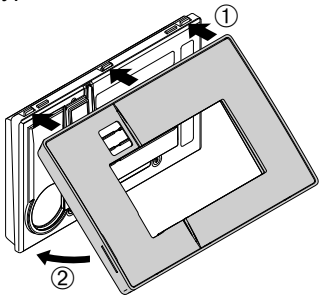
7. Position the electronic part on the base.



8. Tighten the 2 screws.



9. Put the front panel back on the keypad.



10. Switch the system to user mode using the keypad to enter:

master code # ┐ # #

IMPORTANT: the keypad parameters are saved when the lithium pack is changed.

9. Summary of parameters

Parameter description	Parameter-setting sequence	Factory parameters	Possible values	Page
Number of access code digits	** 69 * ? ***	4 digits	Code with 4, 5 or 6 digits	9
Master code programming	*MMMM * 50 * ? ? ? ? * ? ? ? ? ***	0 0 0 0	Code with 4, 5 or 6 digits	9
Installer code programming	*I I I I * 51 * ? ? ? ? * ? ? ? ? ***	1 1 1 1	Code with 4, 5 or 6 digits	10
Tag registering	*MMMM * # then hold up tag*		24 tags maximum	11
Tag deletion	** 194 * XX ***		XX: from 01 to 24	11
Command button personalisation	** 58 * T * n° * access ***	access to commands via code	T: key to be personalised n°: command n° access: 0 = direct access 1 = access via code	13
User code programming	*MMMM * 20 X * UUUU * UUUU ***	none	X: 1 to 8	10
Access restricted to specific command key(s)	*MMMM * 20 X * UUUU * UUUU * T ***		X: 1 to 8 T: personalised command key(s)	10
Access restricted to specific groups	*MMMM * 20 X * UUUU * UUUU * G ***		X: 1 to 8 G: groups 1 to 8	10
User code enabling/disabling	*MMMM * 20 X * Y ***	user code not programmed	X: 1 to 8 Y: 0 = disabled/1 = enabled	10
Tag access restricted to specific command key(s)	*MMMM * 3XX * 3XX * T ***	enabled	XX: from 01 to 24 T: one of the 8 personalisation command keys	12
Tag access restricted to specific group(s)	*MMMM * 3XX * 3XX * G ***		XX: from 01 to 24 G: group(s) 1 to 8	12
Tag restriction cancellation	*MMMM * 3XX * 3XX * 0 ***		XX: from 01 to 24	12
Tag enabling and disabling	*MMMM * 3XX * Y ***		XX: from 01 to 24 Y: 0 = disabled/1=enabled	12
Infrared detector alarm level	** 6 * X ***	proximity detector disabled	X = 0: infrared detector disabled 1: intrusion 2: prealarm 3: deterrence 4: warning	14
Speech synthesis system sound level setting	** 11 * X ***	4	X: from 1 to 8 1 = low level/8= high level	9
Selection of speech synthesis language	** 17 * X ***	french	X = 0: French - 1: Italian 2: German - 3: Spanish 4: Dutch - 5: English	9
Activation of warning beeps or message on keypad	** 23 * X ***	disabled	X = 0: disabled 1: enabled	14
Activation of blue light	** 34 * X ***	enabled	X = 0: disabled 1: enabled	14
Activation of back-lighting	** 59 * X ***	enabled	X = 0: disabled 1: enabled	14
Activation of “above freezing” function	** 77 * X ***	disabled	X = 0: disabled 1: enabled	15
Deletion of all tags	** 195 ****			11
Deletion of all access codes	** 196 ****			15
Deletion of one parameter	** parameter n° * 0 ***			15

MMMM = master code I I I I = installer code UUUU = user code

10. Technical data

Technical data	SH640AX Vocal keypad with tag reader and proximity detector
Command keys	8 programmable keys
Back-lighting	according to lighting level, when a key is pressed or the infrared detector triggered
Access codes	• 1 installer code • 1 master code • 8 user codes
Infrared detector	2 detection zones: • distant detection zone • close detection zone
Tag reader	identification of up to 24 tags
Speech synthesis	voice indication: • system status • alarms • exits • faults
LED	two-colour LED to support use and programming
Environment	indoor/outdoor in a sheltered location
Power supply	2 x (3 V – 2.4 Ah) lithium battery pack
Battery life	5 years in normal conditions of use
Average humidity rate	5% to 75% without condensation at 25°C possibly varying between 85% & 95% for 30 days over the course of the year
Radio links	TwinBand® 400/800 MHz
Operating temperature	-25°C to +55°C
Tamper protection	• against opening • against removal • against access code search
Degrees of mechanical protection	IP 53 / IK 07
Dimensions H x W x D	115 x 176 x 24 mm
Weight	340 g (with battery)
Designed to comply with the requirements of EN50131-3 grade 2 class III	

Recommendations
The user must not attempt to access the device's internal parts, except areas described in this manual. If the user does access these parts, the product guarantee will be considered null and void and DAITEM shall not be held responsible for any problems. Touching the device's internal parts and/or electronic components can damage the product. Furthermore, the device is designed in such a way that these parts and components do not need to be accessed for operation or maintenance purposes.

To obtain advice when installing your system or before returning equipment, please contact the Daitem technical support team (see telephone number at the back of the alarm system installation manual) or check the web site at

www.daitem.co.uk

A team of qualified technicians will advise you what to do.

CE

DECLARATION OF CONFORMITY
Manufacturer: **Hager Security SAS**
Address: **F-38926 Crolles Cedex - France**

GB
13

Product type: **Vocal keypad**
Trade mark: **Daitem**
We declare under our sole responsibility that the product to which this declaration relates is compliant with the essential requirements of the following directives:
• **R&TTE Directive: 99/5/EEC**
• **Low voltage directive: 2006/95/EC**
• **Directive ROHS: 2002/95/EC**
in compliance with the following harmonised European standards:

Products code	SH640AX
EN 300 220-2 V2.3.1	X
EN 300 330-2 V1.3.1	X
EN 50130-4 (2001)	X
EN 55022 & 55024 (2002)	
EN 60950 (2006)	X
EN 301 489-1 V1.8.1	X

This product can be used in all EU, EEA Countries and Switzerland.

Crolles, 02.01.2013

Signature:
Patrick Bernard
Director of Research and Development

Non-binding document, subject to modification without notice.

DAITEM

805099/A - 02.2013